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### Fuzzy-set theoretic interpretation of economic order quantity.

KS Park - IEEE Transactions on systems, Man, and Cybernetics, 1987 - csa.com

... The economic order quantity (EOQ) formula is probably one of the most famous formulas in the industrial management field. ... In view of the inherently fuzzy aspect of the cost determination, the EOQ formula is re-examined in the fuzzy-set theoretic perspective. ...

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### The economic production quantity (EPQ) with shortage derived algebraically

LE Cárdenas-Barrón - International Journal of Production Economics, 2001 - Elsevier

... Previously, in several papers and textbooks, the classical economic order quantity (EOQ) and the economic production quantity (EPQ) formulas for the shortage case, have been derived using differential calculus and solving two simultaneous equations (derived from setting the ...

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### EOQ formula when inventory cost is fuzzy

M Vujosevic, D Petrovic, R Petrovic - International Journal of Production ..., 1996 - cat.inist.fr

Copyright(c) 1996 Elsevier Science BV All rights reserved. Various types of uncertainties and imprecision are inherent in real inventory problems. They are classically modeled using the approaches from the probability theory. However, there are uncertainties that cannot be appropriately ...

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### Discounted costs, obsolescence and planned stockouts with the EOQ formula

C Van Delft, JP Vial - International Journal of Production Economics, 1996 - Elsevier

In this paper, we propose a simple economic order quantity for a class of inventory management problems concerning items with a short and stochastic lifetime. The analysis is relevant to the management of items in industries subject to fast technological progress, where the ...

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### A proof of the EOQ formula using quasi-variational inequalities - [psu.edu](#) [PDF]

D Beyer, S Sethi - International Journal of Systems Science, 1998 - papers.ssrn.com

Electronic copy available at: <http://ssrn.com/abstract=1121525> ... A Proof of the EOQ Formula Using Quasi-Variational ... Dirk Beyer y and Suresh P. Sethi z ... Abstract In this paper, we use quasi-variational inequalities to provide a rigorous proof of the familiar square root ...

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### [PDF] Using the deterministic EOQ formula in stochastic inventory control

S Axelöter - Management Science, 1996 - jstor.org

1. Introduction We consider a standard single-item continuous-review inventory system with stationary stochastic demand. The inventory is controlled by a (Q, r)-policy, ie when the inventory position drops to or below ra number of batches of size Q are ordered such that the inventory ...

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### [PDF] Economic ordering quantities for recoverable item inventory systems

RH Teunter - Naval Research Logistics, 2001 - ise.uit.edu

... We derive simple square root EOQ formulas for both the manufacturing batch quantity and the recovery batch quantity. c 2001 John Wiley & Sons, Inc. ... 48 (2001) Note that the ordering quantities (2) and (3) are simply the appropriate modifications of the well-known EOQ formula ...

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### EOQ formula under varying marketing policies and conditions

ES Subramanyam, S Kumaraswamy - IIE Transactions, 1981 - informaworld.com

TECHNICAL NOTE EOQ Formula under Varying Marketing Policies and Conditions ... S. KUMARASWAMY Alagappa Chettiar College of Technology Madras 600 025, India Abstract:

This note deals with a method of arriving at an **EOQ formula** taking into account the effect of ...

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D Erlenkotter - Operations Research, 1990 - jstor.org

... and Jaffe (p. 12) then mention the **EOQ** and economic lot size **formulas**, comparing them to Lord Kelvin's law for the economical size of an electrical conductor, and state "These were all developed under ASME auspices." The reader is referred to Alford (1928) for details. ...

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[PDF] [» Economic order quantities with inflation](#)

JA Buzacott - Operational Research Quarterly, 1976 - jstor.org

... The classical **EOQ formula** assumes that all relevant costs and prices are constant. In this paper it is shown that with inflation the choice of the inventory carrying charge used in the **EOQ formula** depends on the company's pricing policy. ...

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